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MONTHLY LETTER OF THE BUREAU OF ENTOMOLOGY
UNITED STATES DEPARTMENT OF AGRICULTURE

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Number 42.

October 1917

p. 137-171. (Monographs Dept. Agr. India, Ent. Ser. v. 5, no. 3)

Ihering, Rodolphe. As moscas das frutas e sua instrucao, ed. 2. São Paulo

THE DEPARTMENT OF AGRICULTURE AND THE SECOND LIBERTY LOAN.

Kirk. Up to closing time Saturday October 27, the aggregate of subscriptions by members of the various bureaus of the Department of Agriculture, approximated \$100,000.

Ball, M. M. Some important insect pests of cotton in the Punjab. Lahore, 1917. 8p. 2pl. 8° THE WAR LIBRARY.

Such a generous response has been given by the American people to the call of the American Library Association for \$1,000,000.00 for the 32 cantonment libraries for our soldiers and sailors. Over a million has been pledged, of which \$939.22 has been contributed by employees of the Department of Agriculture and through their efforts. p. 461-618, Sept. 1917.

Communicated by Prof. E. Maxwell, Library.

LIBRARY

Travaini, Gino. Per la Miss Mabel Colcord, Librarian. Phoenix, 1917.
63p. pl. 8° NEW BOOKS.

Adkin, Robert. *Ocneria dispar* [Gipsy moth] in Britain. (South London Entomology and Natural History Society. Proceedings 1916-17, p. 1-6.) Vermont et Discusses infrequent appearance of *Ocneria dispar* in England.
28p. 8° (Bibliothèque du Bureau agricole et vétérinaire)

Canada. Dept. of agriculture. Health of animals branch. Science series. Bulletin 21-22, Ottawa, 1916.

21. Hadwen, Seymour. A further contribution on the biology of *Hypoderma lineatum*. H. F. Phillips, Apiculterist in Charge.

22. Hadwen, Seymour & Bruce, E. A. Observations on the migration of varible larvae through the tissues. (Special work in beekeeping are being appointed. These men will report to Washington for a short conference before Chagnon, G. A. A preliminary list of the insects in the Province of Quebec. Part III-D-*Coleoptera*. MacDonald, Quebec, 1917. p. 161-277. Field Crop Insect Investigations. Published as supplement to report of the Quebec society for the technical protection of plants.

Dr. H. F. Phillips, who is making an extensive trip in the Western States, Dougherty, L. S. and Dougherty, M. C. *Principals of economic zoology*. ed. 2d rev. Philadelphia and London, W. B. Sanders Company, 1917. 428p. Illus. increased demand for the cotton boll weevil.
Insects, p. 112-187.

Green, Edward C. A lagarta rosada dos capulhos no Brazil-[*Gelechia gossypiella*] seu historico, disseminacao, prejuizos-parassitas e modo de combate-a Rio de Janeiro, 1917.

21p. illus.

MONTHLY LETTER OF THE BUREAU OF ENTOMOLOGY
UNITED STATES DEPARTMENT OF AGRICULTURE

Vier Gedichte

• 84 *reduced*

THE DEPARTMENT OF AGRICULTURE AND THE SECOND LIBRARY LOAN.

On the 20th of October 1947, the Secretary of Education, Mr. George A. K. McTague, presented to the Senate Committee on Education, Subcommittees on the Functions of the Department of Education, the following report:

• YARAGILI RAV SET

Aeronautics Research Association has been given a \$100,000,000 for the Department of Agriculture and the Department of Defense. Over a million dollars was spent on research and development in 1944 and \$2,000,000,000 in 1945.

THAT'S
WHAT I TALKED
ABOUT WITH

Diseases illustrating absence of connective tissue disease in England.

22, Hovey, New Haven, Conn. A further contribution on the biology of *Habrobracon* by G. W. H. Hovey. 16 pp.

22. Headen, Samson & Bruce, E. A. Observations on the migration of
waterfowl through the fissures.

1945-1951. *Imperialism, Capitalism, War*. London: George G. Harrap & Sons.

Mr. G. H. Morris, Secretary, [Galesburg Savings Bank] A. J. Ladd, President, [Galesburg Savings Bank] - a member of the Board of Directors, and a director of the Galesburg Savings Bank, Galesburg, Illinois, 1891.

Holmgren, Karin and Holmgren, Nils. Report on a collection of termites from India...tr. by T. Bainbrigge Fletcher. Calcutta, April, 1917.
p. 137-171. (Memoirs Dept. Agr. India. Ent. Ser. v. 5, no. 3)

Dry A. L. Quainterance has been visiting field stations, and has been working with
Ihering, Rodolpho. As moscas dos fructas e sua destruicao, ed. 2. Sao Paulo
1912. 47p. illus. 8° of the fruits and their destroying insects. Investigations
at Toms River, N. J., made a survey of methods used for insect control.

Kirk, H. B. Notes on fly control in military camps. Wellington, 1916.

16p. illus. prepared by the Royal Entomological Society, 1916, has
been transferred to the laboratory of Wallington, London.

Lall, M. M. Some important insect pests of cotton in the Punjab. Lahore, 1917. 8p. 3pl. 8° of the cotton pest, cotton boll weevil, etc. M. M. A.
others, being in charge of the cotton pest work, and the cotton boll weevil
Saunders, Winifred H. Fly investigations Reports.- I- Some observations on
the life-history of the blow-fly and of the house-fly, made from
August to September, 1915, for the Zoological society of London.
(Proceedings of the Zoological society of London 1916, Part III,
p. 461-518, Sept. 1916.)

Communicated by Prof. H. Maxwell Lefroy.

Dr. Doctor Hunter is engaged in cotton work for a short time early in
Travaini, Gino. Per una migliore apicoltura italiana. Piacenza, 1917.

63p. pl. 8° of the Italian bee and honey, including, probably, the
allian, Texas, as well as work on bee-keeping in the United States.

Vermorel, Victor. Notes experimentals sur l'efficacite des bouillies bordelaises, acides, neutres et alcallines... 1915-1916, par V. Vermorel, et E. Dantony. Villefranche, 1917.

28p. 8° (Bibliotheque du Progres agricole et viticole) M. 1917.
Mattiesburg, Miss., for the U. S. Apiculture Bureau.

regard Mr. J. L. Beck finished the year's work at M. 1917, and was transferred to Washington, D. C., the first of Oct.

SEE CULTURE

E. F. Phillips, Apiculturist in Charge.

Six additional men for emergency extension work in beekeeping are being appointed. These men will report to Washington for a short conference before being assigned to the field.

Dr. J. A. Nelson is being transferred to Southern Field Crop Insect
Investigations. Doctor Nelson expects to begin work about November 1st on some
technical problems connected with the cotton boll weevil.

Dr. E. F. Phillips, who is making an extended trip in the Western States,
reports great interest and enthusiasm among beekeepers of that section in the
effort to greatly increase the 1918 honey crop to supply the present greatly in-
creased demand for this food product. Expected to stop over at the New York City for
a conference with the Technical Apiculture Committee on the proposed experimental
work for the development of methods of preventing damage to a silkworm insect to
lead cables in California.

b. 193-194. (Memphis Dept. Agric. India. Ent. Ser. v. 2, no. 3) This is a collection of insects from Kurni and Hognerton, Miss. Report on a collection of insects from Memphis...etc. by T. S. Simpson & J. Cooper. Scientists, April, 1934.

Imprensa, Redação, etc. A mesma que é a sua destinação. São 500 páginas.

1911. 8p. 38. 8°. Some important insect pests of coffee in the Pacific. Spain, M. M., 1911.

Communicated by Prof. H. Maxwell. H. M. 1878. Part III. p. 481-518, Sept. 1878.

Travers, Gino. per una migliore classificazione. 1951. B. 868. B.I.

THE CULTURE OF A BICENTENNIAL IN CPERGE.

— 10 —

DECIDUOUS FRUIT INSECT INVESTIGATIONS.
A. L. Quaintance, Entomologist in Charge.

Dr. A. L. Quaintance has been visiting field laboratories at Brownwood, Texas and Bentonville, Ark., for the purpose of inspecting work under way.

H. B. Scammell, in charge of the Bureau's work on cranberry insect investigations at Toms River, N. J., made a survey of cranberry bogs in Massachusetts for the purpose of making observations on cranberry insects in that State.

R. A. Cushman, engaged in parasite investigations at North East, Pa., has been transferred to the laboratory at Wallingford, Conn. A laboratory has been established at Medford, Oregon, where investigations will be carried out in connection with the more important apple insects, Mr. M. A. Yothers, being in charge of the work. This work is to be carried out in cooperation with the Oregon Agricultural Experiment Station.

Mr. W. D. Hunter, Entomologist in Charge, has been engaged in the investigation of the pink bollworm in the San Joaquin Valley, Calif., in the district opposite Bakersfield. As a result of his work he has located a suitable place for the planting of seed cotton in the valley, and has recommended the planting of seed cotton in the valley, and has recommended

SOUTHERN FIELD CROP INSECT INVESTIGATIONS.

W. D. Hunter, Entomologists in Charge.

Doctor Collins, Chief Entomologist, has been engaged in work in Texas, as directed by Doctor Hunter. Doctor Hunter returned to Washington from Texas for a few days early in October and left on the 15th of the month for another extended trip which included an inspection of the work of the laboratories at Tallulah, Louisiana, and Dallas, Texas, as well as work in connection with pink bollworm.

Mr. F. L. McDonough left his post at Quincy, Florida, to answer a call from the draft officials of his district and expects to report at Camp Ayer, Mass., in a few days. First Lieut. A. H. Jennings has been ordered to report at Camp Shelby, Hattiesburg, Miss., for duty in the Sanitary Corps.

Mr. J. L. Webb closed the season's work at Topaz, Calif., and returned to Washington, D. C., the first of October.

The public hearing on the proposed legislation to prohibit the use of lead in paint has been called for November 12 at the office of the Bureau of Chemistry and Soils.

As a result of a conference with Mr. A. D. Hopkins, Forest Entomologist, Pennsylvania, it is proposed

FOREST ENTOMOLOGY

On October 23 Dr. Hopkins returned to the Washington office from his field work at Kanawha Station, W. Va.

W. S. Fisher, spent the first week of the month in observations on the hickory barkbeetle in the vicinity of Harrisburg, Pa. E. E. Snyder left Washington on October 15 for Boston, Cambridge and Wellesley, Mass., in connection with his study of the extensive termite collection made by him during the summer trip. He expected to stop over in New York City for a conference with the Telegraph and Telephone Company on the projected experimental work for the development of methods of preventing damage by a woodboring insect to lead cables in California.

Dr. A. J. Gaspari, *Microbiologist in Charge.* *Deciduous fruit insect investigations.*

Dr. A. L. Ousittsuk and Dr. Brownwood, *Use of a new model for predicting the need and outcome of primary prevention*

These same Benetton affiliates, A.I.R.C., for the same purposes of improving work under new law.

H. B. Scammell, in charge of the Bureau, a work on a superintendence of the State of Maine.

the purpose of suspending operations in this state.

Y. A. Gurney, one based on the basis of the North East, p. 88, see

W. brooks is the president of the *Brooks Bros.* company.

will be carried out in connection with the more important tasks of the League.

to with the Oregon Agricultural Experiment Station.

1996-1997 学年第二学期期中考试高二数学(理科)参考答案

卷之三十一

SOUTHERN FIELD CROP INSECT INVESTIGATIONS

D. 401, M. D. Hunter, Mammalogist in Charge.

Doctor Hunter returned to Mapleton from Town for a few days

more. T.L.I. Medoponang left the base at 6:45 p.m., Telok, a steward at 8:30 p.m., and the steamer as well as work in connection with this port tomorrow.

...the distribution of the different species of fish at Camp Aher, Mass.

6. *Pyrrhura* *caeruleata* (Linné) *caeruleata* Linné

Figure 10. Effect of NaCl concentration on the Na^+ response of L^{c} cells.

reaches the head of the *Sierra Madre Occidental* and is the outlet of the basin of the *Río Grande*.

REVIEW OF THE LITERATURE ON
LARVAL ENTOMOLOGY
A. D. Hopkins, Doctor Entomologist

On October 23 Dr. Hopkins reported to the Massachusetts office from his field work at Kansus Station, W. Va.

edit no anotasyonado ni dñs. edit no kew. tanti edit tgegahedai. ~~kesinches~~

Miss Velieffel, who is connected with the State Board of Education, said to the reporter: "I have never heard of any such case."

1. **Countermeasures with the Telephone and Telegraph Companies** - An **intercepted experiment** was conducted by a **mining authority** to determine whether **telegraphic traffic** could be **checked** to **safe over** in **New York City** for

now for the development of a new technology to meet the needs of the market.

Lead copies in Stillness

TROPICAL AND SUBTROPICAL AGRICULTURE
FEDERAL HORTICULTURAL BOARD
C. L. Marlatt, Chairman.

Doctor Hunter has returned to Texas to assist further in the organization of the work in relation to the pink bollworm, namely, the borer inspection, establishment of a cotton-free zone, and the field surveys in Texas and Mexico. Assistant Secretary Ousley of the Department of Agriculture is also in Texas and will assist and advise in this work of organization.

No further evidence of pink bollworm has been found in Texas but the examination of fields in the vicinity of the 11 mills which had received Mexican cotton seed is continuing and the cleanup and other safeguards referred to in the last number of this publication are being carried out. Mr. Busck is still exploring in Mexico and Dr. C. H. T. Townsend has been commissioned to proceed to Texas and Mexico to assist in the field explorations in Mexico, more particularly in the Matamoras district opposite Brownville. An infested field in Mexico has been found opposite Eagle Pass, some 30 miles in the interior, the infestation evidently coming from the planting of seed obtained from the Laguna. That the pink bollworm also occurs in the vicinity of Monterey, Mexico, has been determined by Mr. Busck.

Doctor Collins, Chief health officer of the State of Texas, accompanied by Doctor Hall, State Health Officer at Laredo, were in Washington during the week, getting information which may lead to the establishment of plants for house fumigation of all railway cars passing from Mexico across the American border to meet the fumigation requirements of the health service of Texas and the regulations of this Department in relation to the pink bollworm.

Mr. Beattie has recently returned from an inspection of plant introduction gardens, in the course of which he has made inspections of various smelters of the West to determine the freedom of ore from Mexico, as unloaded at the smelters, and of cars from cotton seed, and to learn the local conditions which might require safeguarding in relation to any seed carried with such ore or cars. He also made a brief examination of the border inspection conditions.

The public hearing for the sweet potato quarantine referred to last month has been called for November 20 at the Department of Agriculture in Washington.

As a result of a conference with Mr. J. G. Sanders, Economic Zoologist of Pennsylvania, it is proposed that the placing of further and perhaps radical restrictions on the living plants, particularly those with earth about the roots, be made a special topic for discussion and decision at the annual meeting of the Association of Economic Entomologists and Horticultural inspectors to be held at Pittsburg December 31, 1917, to January 2, 1918; and, if desireable, a public hearing with the view to further quarantine restrictions can thereafter be called by the Board, going on in the fall. Plant pest control work in the Lower Mississippi region is well under way with two additional stations at work in Louisiana and two in Eastern Texas. Plant protection work is also being carried on in Southern California.

-4-

FEDERAL HORTICULTURAL BOARD
O. I. MASTIFF, Operator.

Doctor Hunter has reported in the organization of a tax of 25 cents on the date of sale, the power to collect it is given to the collector of taxes in the state of Mexico. A tax will be levied on cotton in Texas and Mexico. A tax of 25 cents on cotton is to be levied by the Department of Agriculture to the Department of Agriculture to the state of Texas and Mexico.

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TROPICAL AND SUBTROPICAL FRUIT INSECT INVESTIGATIONS
C. L. Marlatt, Entomologist in Charge.

Mr. G. F. Moynet, who has hitherto been one of the inspectors of the Federal Horticultural Board stationed in Washington, has been detailed to Florida to establish a station at Miami for the studies of the insect enemies of subtropical fruits peculiar to Southern Florida, such as the mango, avocado, guava, papaya, etc. He will have quarters and laboratory at the Introduction Gardens at Miami and will act also as the inspector of these gardens in relation to plant distributions. Ultimately he will be transferred to the Bureau rolls.

Harold Morrison has completed the studies now easily possible of the fruit flies in Cuba, Jamaica, and Canal Zone and has been authorized to return to Washington to report on the results of his trip of exploration through the West Indies and to work up his collections and notes.

Dr. W. M. Mann who was drafted has been rejected on account of short sight and has returned to his work in this section of the Bureau.

EXTENSION ENTOMOLOGY.

J. A. Hyslop, Entomologist in Extension work.

During the last month project agreements for extension work in entomology have been approved by the following states:

Virginia	Louisiana
Oklahoma	Alabama
Mississippi	North Carolina
Arkansas	New Hampshire
Indiana	Maryland
New York	Tennessee
Utah	New Jersey
Arizona	Idaho
Iowa	North Dakota
Oregon	Texas

Projects have also been submitted during the month to month in South Carolina. Arizona

headquarters at Columbia.

B. P. Morrison, Entomologist in

Louisiana with headquarters at

South Dakota.

The Hessian fly campaign is now well under way and deciduous fruit extension workers are working in the southern Appalachian apple section, in Kansas, and in the lower Mississippi River region. The truck extension men in the Middle Atlantic States are closing up their work and will be moved south early next month to reinforce the work now going on in the Carolinas. Truck extension work in the lower Mississippi region is well underway with two extension entomologists at work in Louisiana and two in Eastern Texas. Truck extension work is also being carried on in Southern California.

**STORICAL AND SUBSTORICAL TURN INVESTIGATIONS
C. F. MELFITT, Mammologist in Charge.**

Material progress is being made on the citrus fruit extension work in lower California, great interest being shown in the work in the control of citrus mealybug. One of the most important factors in this work is the control of the Argentine ant. The ants serve as nurses and distributors of the mealybugs. The citrus work in Florida is now well established.

TRUCK CROP INSECT INVESTIGATIONS

F. H. Chittenden, Entomologist in Charge.

M. M. High, who has been engaged temporarily on an investigation of the pink bollworm in the vicinity of Hearne, Texas, is spending a vacation at his home in Starkville, Miss. On his return he will resume work on the investigation of the sweet-potato weevil in the neighborhood of Kingsville, Texas.

H. K. Laramore is engaged in emergency work in Texas, also working on the sweet-potato weevil.

Marion R. Smith is at present stationed at Washington, D. C. He is working on ants, particularly such as are injurious to truck crops in the field and in greenhouses.

E. G. Smyth, who has been employed as Entomologist of the Island of Porto Rico, has accepted a position with the Bureau of Entomology for work in the state of Texas. He will be in Washington Monday for conference with Bureau officials before proceeding south.

K. L. Cockerham, who has been engaged as Field Assistant at the truck crop insect station at Muscatine, Ia., has been transferred to extension work with headquarters at Agricultural College, Miss. It is expected in addition to extension work in that State that Mr. Cockerham will assist in a survey of the sweet-potato weevil in its possible occurrence in the southwestern counties of the State.

Gerson Garb, who was appointed as an Extension Entomologist and stationed at Mineola, Long Island, N. Y., in food production work has resigned.

Harry M. Gillert, who has been working as Extension Entomologist, during the month in South Carolina, will work during the next month in North Carolina, with headquarters at Raleigh.

E. P. Barrios, who was appointed Extension Entomologist, is working in Louisiana with headquarters, at present, in New Orleans, La.

A. A. Brock, Commissioner of Horticulture, Santa Paula, Calif., has been appointed as Collaborator.

CEREAL AND FORAGE INSECT INVESTIGATIONS

W. R. Walton, Entomologist in Charge.

U. S. Entomological Laboratory.

Tempe, Arizona.

October 19, 1917.

During the trip to Buckeye, Arizona, the first of this week, grasshoppers were observed in sufficient numbers to become a serious pest next year. Control

During the trip to Buckley, Arizona, the first to last week, I was able to make a number of observations on the life history of the desert tortoise.

measures were applied at a few ranches this past summer and severe loss was averted, but as the Hassayampa Valley is comparatively small in extent, a grasshopper extermination campaign, with all the farmers cooperating, would undoubtedly prove a success. WOMENS WAR RELIEF ASSOC. WITH THE CHURCHES

During the past week, there has been quite a change in the temperature at Tempe, the thermograph registering forty-six degrees this morning, the lowest minimum so far. The days have been fair but generally windy. Under these conditions, *Aphis maidis* has been on the increase on milo maize while *Stictocephala festina* adults seem to have started hibernating, only a slight activity being noted in the middle of the day. Organized - 28

On October first, twenty-eight acres of alfalfa were treated with poisoned bran mash where severe injury had been sustained from *Feltia annexa*. This was the last report received at the Laboratory of damage from the recent cutworm outbreak. The association is not known.

No second crop of alfalfa seed was grown at Buckeye this year because of the poor yield from the first crop. *Bruchophagus funebris* contributed extensively to the cause of this decrease. At the nearby town of Liberty, where five or six ranchers allowed the seed to mature and thrashed it, the resulting yield was discouragingly small. All the seed was lost.

Send your contributions to L. J. Hogg,
Scientific Assistant
(Acting) In Charge.

Dr. L. P. de Ruy, formerly of the Royal Medical Corps, has been appointed to the Deli, Sumatra, who will be in charge of the medical department. The new Injurious tobacco laws are to come into force on the 1st of January, 1880, about nearly in the month on last any such sum was sent to the Royal Hospital, Liverpool.

During the best week, there was need during a change in the temperature, the two men worked six hours to get a six-hour delivery. Under these conditions, the delivery would be so fast. The delivery man had no time to make any mistakes or to stop for any reason. The delivery man had to be very careful and make sure that the delivery was made on time.

last report received at the Department of Education in 1947, nearly eight years ago, saw that 75% of the 1947-48 school year was spent in the classroom, and 25% in the laboratory.

As a result of the recent legislation, the Bruegger's Bagels company, which has been in business for over 40 years, has been forced to close its doors. The company's president, Michael Bruegger, stated, "We are deeply sorry to have to make this difficult decision, but the recent legislation has made it impossible for us to continue our operations." The company's closure has caused concern among its employees and customers, who are worried about the impact it will have on the local economy.

P. 1. HOME,
Scientific Assistant
(Vocifer) In Control.